IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

C.E. Miller et al.

Attorney Docket No.: WEYE120656/22193

Application No.: 10/603,981

Group Art Unit: 2622

Filed:

June 24, 2003

Title 1 5 2003

ABSORBENT STRUCTURE FOR ABSORBING BLOOD

INFORMATION DISCLOSURE STATEMENT

Seattle, Washington 98101 December 12, 2003

TO THE COMMISSIONER FOR PATENTS:

Applicants are aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

- Copies of the listed patents, publications, and other information are enclosed for 1. X the Examiner's use.
- 2. Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being X filed within three months of the filing date of the national application (other than a CPA), within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of an RCE.

Respectfully submitted, CHRISTENSEN O'CONNOR

Jeffrey M. Sakoi

Registration No. 32,059 Direct Dial No. 206.695.1713

I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid and addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the below date.

Date:

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INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL TO THE PROSECUTION OF THE SUBJECT APPLICATION

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U.S. PATENT DOCUMENTS

*Examiner Initials		Document No.	Kind Code	Date (mm/dd/yyyy)	Name
initials	No.		A	08/26/1958	Lewing
	U1	2,849,000			•
	U2	3,344,789	Α	10/03/1967	Arnold et al.
	U3	3,371,666	A	03/05/1968	Lewing
	U4	3,395,201	A	07/30/1968	Kalwaites
	U5	3,645,836	A	02/29/1972	Torr
	U6	3,661,154	A	05/09/1972	Torr
	U7	3,669,103	Α	06/13/1972	Harper et al.
	U8	3,670,731	Α	06/20/1972	Harmon
	U9	3,686,024	Α	08/22/1972	Nankee et al.
	U10	3,758,641	Α	09/11/1973	Zweigle
	U11	3,766,922	A	10/23/1973	Krusko
	U12	3,777,758	A	12/11/1973	Mesek et al.
	U13	3,886,941	Α	06/03/1975	Duane et al.
	U14	3,888,256	Α	06/10/1975	Studinger
	U15	3,888,257	A	06/10/1975	Cook et al.
	U16	3,901,236	A	08/26/1975	Assarsson et al.
	U17	3,903,889	A	09/09/1975	Torr
	U18	3,908,659	Α	09/30/1975	Wehrmeyer et al.
	U19	3,923,592	Α	12/02/1975	George et al.
	U20	3,959,569	A	05/25/1976	Burkholder, Jr.

*Examiner Initials	Cite No.	Document No.	Kind Code	Date (mm/dd/yyyy)	Name
	U21	3,978,257	A	08/31/1976	Ring
	U22	4,009,313	A	02/22/1977	Crawford et al.
	U23	4,055,180	Α	10/25/1977	Karami
	U24	4,062,451	Α	12/13/1977	Gander
	U25	4,066,583	A	01/03/1978	Spaulding
	U26	4,096,312	A	06/20/1978	Holst et al.
	U27	4,102,340	Α	07/25/1978	Mesek et al.
	U28	4,103,062	Α	07/25/1978	Aberson et al.
	U29	4,128,692	Α	12/05/1978	Reid
	U30	4,160,059	Α	07/03/1979	Samejima
	U31	4,232,674	Α	11/11/1980	Melican
	_ U32	4,235,237	Α	11/25/1980	Mesek et al.
	_ U33	4,354,487	A	10/19/1982	Oczkowski et al.
	_U34	4,364,992	A	12/21/1982	Ito et al.
	_ U35	4,381,784	A	05/03/1983	Aberson et al.
	_ U36	4,392,908	A	07/12/1983	Dehnel
	_ U37	4,410,571	A	10/18/1983	Korpman
	_ U38	4,412,036	A	10/25/1983	Pedersen et al.
	_ U39	4,413,995	A	11/08/1983	Korpman
	_ U40	4,415,388	A	11/15/1983	Korpman
	_ U41	4,424,247	Α	01/03/1984	Erickson
	_ U42	4,444,830	A	04/24/1984	Erickson
	_ U43	4,467,012	Α	08/21/1984	Pedersen et al.
	_ U44	4,500,315	Α	02/19/1985	Pieniak et al.
	_ U45	4,507,438	Α	03/26/1985	Obayashi et al.
	_ U46	4,541,871	A	09/17/1985	Obayashi et al.
	_ _ U47	4,558,091	A	12/10/1985	Hubbard
	_ U48	4,605,401	A	08/12/1986	Chmelir et al.

U49 4,610,678 A 09/09/1986 Weisman et al. U50 4,666,975 A 05/19/1987 Yamasaki et al. U51 4,666,983 A 05/19/1987 Tsubakimoto et al. U52 4,673,402 A 06/16/1987 Weisman et al. U53 4,676,784 A 06/30/1987 Erdman et al. U54 4,685,909 A 08/11/1987 Berg et al. U55 4,693,713 A 09/15/1987 Chmelir et al. U56 4,699,808 A 10/13/1987 Menard et al. U57 4,721,647 A 01/26/1988 Nakanishi et al. U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al. U62 4,842,593 A 07/27/1989 Jordan et al.	*Examiner Initials	Cite No.	Document No.	Kind Code	Date (mm/dd/yyyy)	Name
U51 4,666,983 A 05/19/1987 Tsubakimoto et al. U52 4,673,402 A 06/16/1987 Weisman et al. U53 4,676,784 A 06/30/1987 Erdman et al. U54 4,685,909 A 08/11/1987 Berg et al. U55 4,693,713 A 09/15/1987 Chmelir et al. U56 4,699,808 A 10/13/1987 Menard et al. U57 4,721,647 A 01/26/1988 Nakanishi et al. U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U49	4,610,678	A	09/09/1986	Weisman et al.
U52 4,673,402 A 06/16/1987 Weisman et al. U53 4,676,784 A 06/30/1987 Erdman et al. U54 4,685,909 A 08/11/1987 Berg et al. U55 4,693,713 A 09/15/1987 Chmelir et al. U56 4,699,808 A 10/13/1987 Menard et al. U57 4,721,647 A 01/26/1988 Nakanishi et al. U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U50	4,666,975	Α	05/19/1987	Yamasaki et al.
U53 4,676,784 A 06/30/1987 Erdman et al. U54 4,685,909 A 08/11/1987 Berg et al. U55 4,693,713 A 09/15/1987 Chmelir et al. U56 4,699,808 A 10/13/1987 Menard et al. U57 4,721,647 A 01/26/1988 Nakanishi et al. U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U51	4,666,983	Α	05/19/1987	Tsubakimoto et al.
U54 4,685,909 A 08/11/1987 Berg et al. U55 4,693,713 A 09/15/1987 Chmelir et al. U56 4,699,808 A 10/13/1987 Menard et al. U57 4,721,647 A 01/26/1988 Nakanishi et al. U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U52	4,673,402	A	06/16/1987	Weisman et al.
U55 4,693,713 A 09/15/1987 Chmelir et al. U56 4,699,808 A 10/13/1987 Menard et al. U57 4,721,647 A 01/26/1988 Nakanishi et al. U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U53	4,676,784	A	06/30/1987	Erdman et al.
U56 4,699,808 A 10/13/1987 Menard et al. U57 4,721,647 A 01/26/1988 Nakanishi et al. U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U54	4,685,909	Α	08/11/1987	Berg et al.
U57 4,721,647 A 01/26/1988 Nakanishi et al. U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U55	4,693,713	A	09/15/1987	Chmelir et al.
U58 4,734,478 A 03/29/1988 Tsubakimoto et al. U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U56	4,699,808	A	10/13/1987	Menard et al.
U59 4,758,466 A 07/19/1988 Dabi et al. U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U57	4,721,647	Α	01/26/1988	Nakanishi et al.
U60 4,824,689 A 04/25/1989 Kuenn et al. U61 4,826,880 A 05/02/1989 Lesniak et al.		U58	4,734,478	A	03/29/1988	Tsubakimoto et al.
U61 4,826,880 A 05/02/1989 Lesniak et al.		U59	4,758,466	Α	07/19/1988	Dabi et al.
		U60	4,824,689	A	04/25/1989	Kuenn et al.
U62 4,842,593 A 07/27/1989 Jordan et al.		U61	4,826,880	A	05/02/1989	Lesniak et al.
		U62	4,842,593	A	07/27/1989	Jordan et al.
U63 4,902,559 A 02/20/1990 Eschwey et al.		U63	4,902,559	A	02/20/1990	Eschwey et al.
U64 4,902,565 A 02/20/1990 Brook		U64	4,902,565	A	02/20/1990	Brook
U65 4,944,734 A 07/31/1990 Wallach		U65	4,944,734	A	07/31/1990	Wallach
U66 4,959,060 A 09/25/1990 Shimomura et al.		U66	4,959,060	A	09/25/1990	Shimomura et al.
U67 5,002,814 A 03/26/1991 Knack et al.		U67	5,002,814	A	03/26/1991	Knack et al.
U68 5,002,986 A 03/26/1991 Fujiura et al.		_ U68	5,002,986	A	03/26/1991	Fujiura et al.
U69 5,124,188 A 06/23/1992 Roe et al.		_ U69	5,124,188	Α	06/23/1992	Roe et al.
U70 5,128,082 A 07/07/1992 Makoui		_ U70	5,128,082	Α	07/07/1992	Makoui
U71 5,149,334 A 09/22/1992 Lahrman et al.		U71	5,149,334	Α	09/22/1992	Lahrman et al.
U72 5,149,335 A 09/22/1992 Kellenberger et al.		_ U72	5,149,335	Α	09/22/1992	Kellenberger et al.
U73 5,164,459 A 11/17/1992 Kimura et al.		_ U73	5,164,459	Α	11/17/1992	Kimura et al.
U74 5,217,445 A 06/08/1993 Young et al.		_ U74	5,217,445	A	06/08/1993	Young et al.
U75 5,252,340 A 10/12/1993 Honeycutt		_ U75	5,252,340	A	10/12/1993	Honeycutt
U76 5,300,054 A 04/05/1994 Feist et al.		_ U76	5,300,054	Α	04/05/1994	Feist et al.

*Examiner	Cite		Kind	Date	
<u>Initials</u>	No.	Document No.	Code	(mm/dd/yyyy)	Name
	U77	5,352,480	Α	10/04/1994	Hansen et al.
	U78	5,378,528	Α	01/03/1995	Makoui
	U79	5,382,610	A	01/17/1995	Harada et al.
	U80	5,432,000	A	07/11/1995	Young, Sr. et al.
	U81	5,447,977	Α	09/05/1995	Hansen et al.
	U82	5,449,551	Α	09/12/1995	Taniguchi
	U83	5,492,759	Α	02/20/1996	Eriksson et al.
	U84	5,498,478	A	03/12/1996	Hansen et al.
	U85	5,516,569	A	05/14/1996	Veith et al.
	U86	5,538,783	Α	07/23/1996	Hansen et al.
	U87	5,543,215	Α	08/06/1996	Hansen et al.
	U88	5,547,745	Α	08/20/1996	Hansen et al.
	U89	5,571,618	A	11/05/1996	Hansen et al.
	U90	5,597,873	Α	01/28/1997	Chambers et al.
	U91	5,607,759	A	03/04/1997	Hansen et al.
	U92	5,609,727	Α	03/11/1997	Hansen et al.
	U93	5,614,570	A	03/25/1997	Hansen et al.
	_ U94	5,633,316	A	05/27/1997	Gartner et al.
	U95	5,693,411	A	12/02/1997	Hansen et al.
	_ U96	5,807,364	A	09/15/1998	Hansen
	_ U97	5,837,627	A	11/17/1998	Halabisky et al.
	_ U98	5,851,672	Α	12/22/1998	Wang et al.
	U99	5,998,032	Α	12/07/1999	Hansen et al.
	_U100	6,395,395	B1	05/28/2002	Hansen et al.
	_U101	6,627,249	B2	09/30/2003	Hansen et al.

FOREIGN PATENT DOCUMENTS

*Examiner			Kind	Publication Date	Country		Translation
Initial	<u>No.</u>	Document No.	Code	(mm/dd/yyyy)	Country	Provided	Provided
	F1	806,352		02/18/1969	Canada		
	F2	953,890		09/03/1974	Canada		
	F3	0 071 063	A1	02/09/1983	EPO	X	
	F4	0 077 510	A2	04/27/1983	EPO	X	
	F5	0 096 976	A2	12/28/1983	EPO		
	F6	0 122 042	A2	10/17/1984	EPO		
	F7	0 157 960	Al	10/16/1985	EPO		
	F8	0 210 754	A1	02/04/1987	EPO		
	F9	0 233 067	A2	08/19/1987	EPO		
	F10	0 317 106	A2	05/24/1989	EPO		
	F11	0 402 650	A2	12/19/1990	EPO		
	F12	0 429 112	A2	05/29/1991	EPO		
	F13	0 442 185	A1	08/21/1991	EPO		
	F14	0 450 922	A2	10/09/1991	EPO		
	F15	0 450 923	A2	10/09/1991	EPO		
	F16	0 450 924	A2	10/09/1991	EPO		
	F17	0 471 114	A2	02/19/1992	EPO		
	F18	0 474 443	A2	03/11/1992	EPO		
	F19	0 509 708	A1	10/21/1992	EPO		
	F20	1,382,716		02/17/1964	France		X
	F21	1 079 796		04/14/1960	Germany		X
	F22	2 048 721		06/24/1971	Germany		X
	F23	59-189103	A	10/26/1984	Japan		X
	- F24	61-272050		12/02/1986	Japan	X	
	F25	63-035803		02/16/1988	Japan	X	
	F26	720,390		12/15/1954	United Kingdom		
-	F27	1 217 452		12/31/1969	United Kingdom		
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*Examiner	Cite		Kind	Publication Date		English Abstract Translation				
Initial	No.	Document No.	Code	(mm/dd/yyyy)	Country	Provided Provided				
	F28	1 331 964		09/26/1973	United Kingdom					
	F29	GB 2 004 201	A	03/28/1979	United Kingdom					
	F30	GB 2 007 998	A	05/31/1979	United Kingdom					
	F31	GB 2 092 895	A	08/25/1982	United Kingdom					
	F32	GB 2 119 384	Α	11/16/1983	United Kingdom					
	F33	WO 88/04704	A 1	06/30/1988	WIPO					
	F34	WO 91/10413	A 1	07/25/1991	WIPO					
	F35	WO 93/24153	A1	12/09/1993	WIPO					
OTHER INFORMATION										
(Including Author, Title, Date, Pertinent Pages, Etc.)										
*Examiner Cite										
Initial No.										
O1 Burkholder, N.D., "Absorbent Polymers - A New Concept in Fluid										
Absorption," Tech. Symp., Nonwoven Product Technology-Materials Processe										
	& Evaluation, January 31-February 1, 1973, pp. 73-79.									
	O2 Lindsay, W.F., "Absorbent Starch Based Co-Polymers - Their Characteristics and Applications," Formed Fabrics Industry, May 1977, pp. 20, 24, and 26.									
	O3 "Super Slurpers: Time for Change?" Chemical Week, July 24, 1974, pp. 21-22									
	O4 Weaver, M.O., et al., "Highly Absorbent Starch-Based Polymer," Northern Regional Research Laboratory, Agricultural Research Service, U.S. Dept. of Agriculture, Peoria, Illinois, pp. 169-177.									
Examiner Date Considered										

*Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicants.

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